

Nevada
Environmental
Restoration
Project

DOE/NV--1191



Post-Closure Inspection Report for
Corrective Action Unit 92:
Area 6 Decon Pond Facility,
Nevada Test Site, Nevada
For Calendar Year 2006

Controlled Copy No.: _____

Revision: 0

March 2007

Environmental Restoration
Project



U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office

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**POST-CLOSURE INSPECTION REPORT FOR
CORRECTIVE ACTION UNIT 92:
AREA 6 DECON POND FACILITY,
NEVADA TEST SITE, NEVADA

FOR CALENDAR YEAR 2006**

**U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office
Las Vegas, Nevada**

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CORRECTIVE ACTION UNIT 92:
AREA 6 DECON POND FACILITY,
NEVADA TEST SITE, NEVADA

FOR CALENDAR YEAR 2006**

Approved By: SIGNATURE APPROVED
Peter A. Sanders,
Acting Federal Sub-Project Director
Industrial Sites Sub-Project

Date: 03/08/2007

Approved By: SIGNATURE APPROVED
Kevin J. Cabbie,
Acting Federal Project Director
Environmental Restoration Project

Date: 03/08/2007

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ACRONYMS AND ABBREVIATIONS

CAS	Corrective Action Site
CAU	Corrective Action Unit
CFR	Code of Federal Regulations
cm	centimeter(s)
DOE/NV	U.S. Department of Energy, Nevada Operations Office
EPA	U.S. Environmental Protection Agency
FFACO	<i>Federal Facility Agreement and Consent Order</i>
ft	foot (feet)
in.	inch(es)
m	meter(s)
NDEP	Nevada Division of Environmental Protection
RCRA	<i>Resource Conservation and Recovery Act</i>

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EXECUTIVE SUMMARY

This Post-Closure Inspection Report provides an analysis and summary of inspections for Corrective Action Unit (CAU) 92, Area 6 Decon Pond Facility. CAU 92 was closed according to the *Resource Conservation and Recovery Act* (RCRA) Part B Operational Permit (Nevada Division of Environmental Protection [NDEP], 1995) and the *Federal Facility Agreement and Consent Order* (FFACO) of 1996 (FFACO, 1996). Closure activities were completed on February 16, 1999, and the Closure Report (U.S. Department of Energy, Nevada Operations Office, 1999) was approved and a Notice of Completion issued by NDEP on May 11, 1999.

CAU 92 consists of two Corrective Action Sites (CASs), CAS 06-04-01, Decon Pad Oil/Water Separator; and CAS 06-05-02, Decontamination Pond (RCRA). Both CASs have use restrictions; however, only CAS 06-05-02 requires post-closure inspections.

Visual inspections of the cover and fencing at CAS 06-05-02 are performed quarterly. Additional inspections are conducted if precipitation occurs in excess of 1.28 centimeters (cm) (0.50 inches [in.]) in a 24-hour period. This report covers calendar year 2006.

Quarterly site inspections were performed in March, June, September, and December of 2006. All observations indicated the continued integrity of the unit. No issues or concerns were noted, and no corrective actions were necessary. Copies of the inspection checklists and field notes completed during each inspection are included in Appendix A of this report, and photographs taken during the site inspections are included in Appendix B of this report.

One additional inspection was performed after a precipitation event that exceeded 1.28 cm (0.50 in.) within a 24-hour period during 2006. No significant changes in site conditions were noted during this inspection, and no corrective actions were necessary. A copy of the inspection checklist and field notes completed during this additional inspection is included in Appendix A of this report. Precipitation records for 2006 are included in Appendix C of this report.

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1.0 INTRODUCTION

1.1 SCOPE AND OBJECTIVES

Corrective Action Unit (CAU) 92, Area 6 Decon Pond Facility, is located in Area 6 of the Nevada Test Site, Nevada, adjacent to the Decontamination Facility along the southern portion of the Yucca Lake Dry Playa (Figure 1). CAU 92 is identified in the *Federal Facility Agreement and Consent Order* (FFACO) of 1996 (FFACO, 1996) and was closed according to the *Resource Conservation and Recovery Act* (RCRA) Part B Operational Permit (Nevada Division of Environmental Protection [NDEP], 1995). CAU 92 consists of two Corrective Action Sites (CASs), CAS 06-04-01, Decon Pad Oil/Water Separator; and CAS 06-05-02, Decontamination Pond (RCRA). This report provides an analysis and summary of the quarterly site inspections performed at CAU 92 during calendar year 2006.

1.2 SITE HISTORY

The Area 6 Decon Pond Facility was constructed and became operational in 1979. It was approximately 60 meters (m) (200 feet [ft]) long on each interior side, with perimeter berms at 1.5 m (5 ft) above the surrounding grade. A discharge pipe from the Decon Pad Oil/Water Separator (CAS 06-04-01) entered the Decontamination Pond (CAS 06-05-02) on the southwest side, approximately 0.3 m (1 ft) above the base of the pond. The Decontamination Pond was unlined and was surrounded by an earthen berm on all four sides with a two-to-one grade (U.S. Department of Energy, Nevada Operations Office [DOE/NV], 1996).

The Decon Pond Facility was used for the disposal of partially treated liquid effluent discharged from Buildings 6-605 (Decontamination Facility) and 6-607 (Industrial Laundry). Effluent from Buildings 6-605 and 6-607 was piped into the Decontamination Pad Oil/Water Separator and then to the Decontamination Pond where it was allowed to evaporate.

Radioactively contaminated site worker clothing (e.g., coveralls, gloves, and boot covers) was processed in the laundry in Building 6-607. The laundry process used standard industrial water softeners and laundry detergents to decontaminate the personal protective equipment. Heavy equipment and critical tolerance equipment used in weapons testing were processed in Building 6-605 to remove radioactive contamination. This equipment was treated using degreasers, caustic or acid solutions, and detergents, and then washed with pressurized hot water. The wash water was collected in floor drains and piped through a sand filter. This partially treated water also fed into the Decon Pad Oil/Water Separator and then discharged into the Decontamination Pond.

Suspected RCRA-regulated hazardous waste or hazardous waste constituents released into the Decontamination Pond included degreasing solvents associated with equipment decontamination activities (chlorobenzene and 1,1,1-trichloroethane), petroleum hydrocarbon constituents (xylenes), and heavy metals (lead and arsenic). Releases of RCRA-regulated hazardous waste or hazardous waste constituents have not been discharged to the Decontamination Pond since 1988 (DOE/NV, 1996). The following radionuclides were detected: cobalt-60, cesium-137, plutonium-238, and tritium. A detailed discussion of the unit activities and analytical results can be found in the CAU 92 Characterization Report (DOE/NV, 1997a).

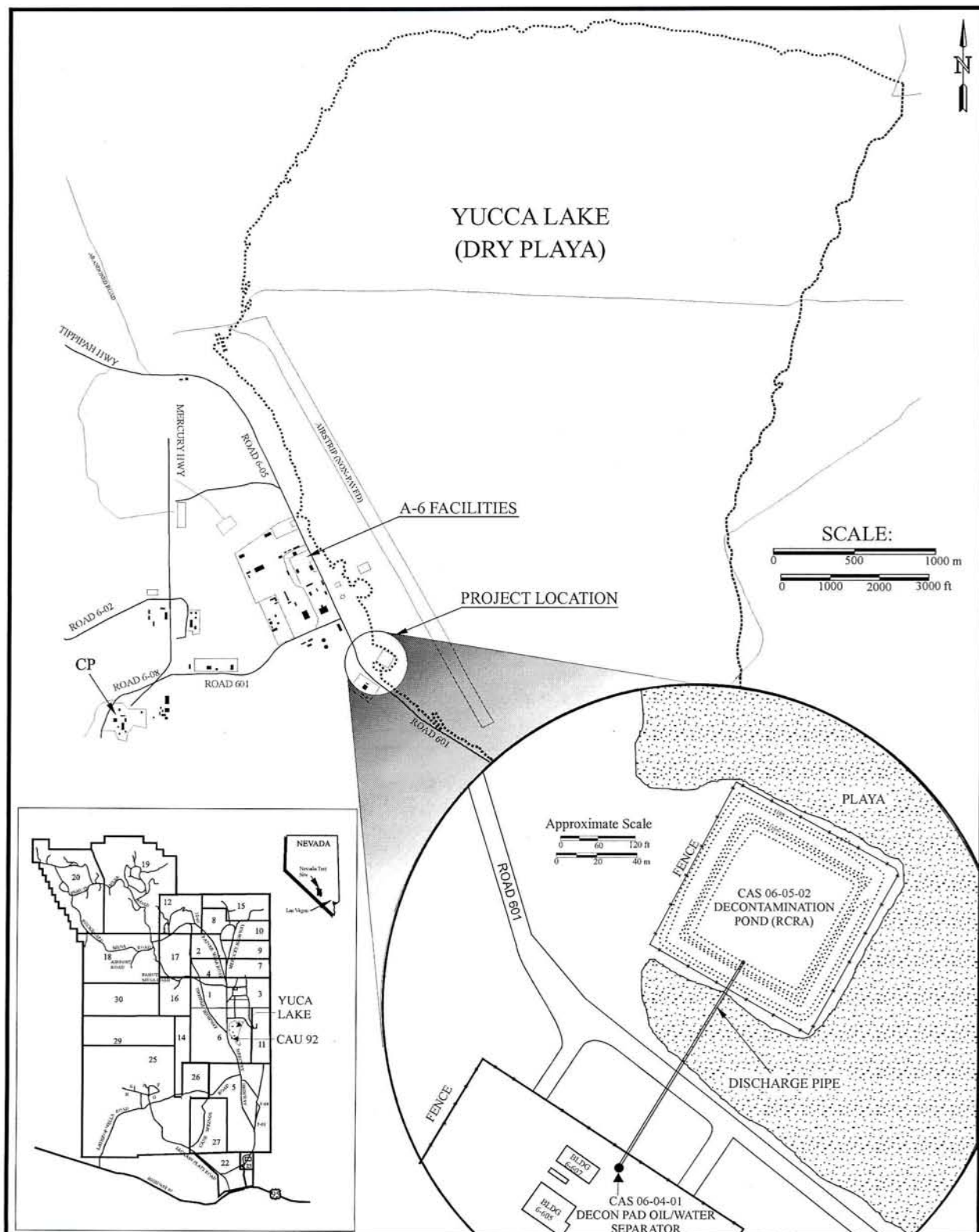


FIGURE 1
LOCATION OF CAU 92, AREA 6 DECON POND FACILITY

CAS 06-05-02, Decontamination Pond (RCRA), was closed by constructing an engineered cover (DOE/NV, 1999). The earthen berms were pushed into the pond and compacted. Additional materials were imported to form subsequent layers and compacted to meet specifications. The final layers consist of a bedding layer, geosynthetic clay liner, buffer layer, and erosion control layer. The cover was designed to meet or exceed all requirements specified in 40 Code of Federal Regulations (CFR) §265.228(a)(2) (U.S. Environmental Protection Agency [EPA], 1996). Monuments were placed on the cover to monitor subsidence, and a chain-link fence surrounds the cover to limit access. CAS 06-04-01, Decon Pad Oil/Water Separator, was closed by backfilling with grout.

All closure activities performed at CAU 92 were completed on February 16, 1999. The Closure Report (DOE/NV, 1999) was approved and a Notice of Completion for CAU 92 was issued by NDEP on May 11, 1999. Table 1 summarizes the chronology of significant events over the life span of the facility.

TABLE 1: CHRONOLOGY OF THE AREA 6 DECON POND FACILITY

DATE	SIGNIFICANT EVENTS
1979	The Decontamination Pond was constructed and became operational.
1979 - 1988	The facility received partially treated liquid effluents from Building 6-605 (Decontamination Facility) and Building 6-607 (Industrial Laundry) prior to the implementation of administrative controls on the use of RCRA-regulated materials.
1990	A clay discharge pipe from Building 6-605 was broken during a trenching operation. An unknown amount of effluent was released to the subsurface soil.
1991	On March 3, the northwest side of the earthen berm was reportedly breached due to an intense rainstorm and high winds, with effluent spilling onto the Yucca Lake Playa.
1992	The Decontamination Pond was removed from service, and all known access lines were plugged and re-routed to aboveground tanks.
1996	Closure activities began with the submission and approval of the <i>Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Characterization Plan Area 6 Decontamination Pond Facility</i> (DOE/NV, 1996).
1997	A characterization program to obtain samples for radiological, chemical, and geotechnical parameters was conducted from May to June.
	The <i>Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Characterization Report, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92</i> (DOE/NV, 1997a) was issued.
	The <i>Resource Conservation and Recovery Act Corrective Measures Study, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92</i> (DOE/NV, 1997b) was issued.
1998	The <i>Closure Plan for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada</i> (DOE/NV, 1998) was issued.
	Closure activities began on July 30.
1999	Closure activities were completed on February 16.
	The <i>Closure Report for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada</i> (DOE/NV, 1999) was issued.
	The Closure Report was approved and a Notice of Completion issued by NDEP on May 11.
	Quarterly inspections began in March.

2.0 REGULATORY CRITERIA

Post-closure inspections of CAU 92, Area 6 Decon Pond Facility, are required under 40 CFR §265.116 through §265.120 (EPA, 1996). The post-closure requirements for the cover are specified in Section VII.B.5 of the RCRA Part B Permit NEV HW0021 (NDEP, 2005).

Inspections are conducted quarterly. Additional inspections are conducted if precipitation occurs in excess of 1.28 centimeters (cm) (0.50 inches [in.]) in a 24-hour period. Post-closure inspections consist of and adhere to the following:

- During each inspection, the cover and fencing are inspected. The perimeter of the site is walked by the inspector, and the condition of the wave barrier (fiberglass slats laced through the bottom of the chain-link fencing), warning signs, entrance gate, and lock is documented. The reason for the inspection (i.e., quarterly or precipitation event) is noted on the inspection checklist.
- During each inspection, any changes in the condition of the cover or fenced area are documented. Specific changes noted regarding the current condition of the cover include, but are not limited to, trash and debris within the fenced area, vegetation growing on the cover, animal burrows/nesting activity, or erosion of the cover.
- Small cracks or settling depressions (less than 5 cm [2 in.] deep) are documented, and any necessary cover repair is scheduled on an annual basis. Larger disruptions of the cover are immediately reported to NDEP and evaluated and remedied within 60 days of discovery.
- All repair work preserves the original RCRA cover “as-built” design. If the cover repair requires modification to the RCRA cover design, the U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office presents a formal design modification request to NDEP prior to making the design modification.

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3.0 SITE INSPECTION RESULTS

Quarterly post-closure inspections of CAU 92 for calendar year 2006 were conducted on March 23, June 20, September 19, and December 20, 2006. One precipitation-triggered inspection was performed. Copies of the inspection checklists and field notes are included in Appendix A of this report. Site photographs taken during the inspections are included in Appendix B of this report.

3.1 QUARTERLY INSPECTION RESULTS

3.1.1 First Quarter

The first quarter inspection was conducted on March 23, 2006. The inspection indicated that the unit was in excellent condition. No issues were identified with the fence, signs, monuments, or cover.

All observations indicated the continued integrity of the unit, and no actions were necessary.

3.1.2 Second Quarter

The second quarter inspection was conducted on June 20, 2006. The inspection indicated that the unit was in excellent condition. No issues were identified with the fence, signs, monuments, or cover. Some minor vegetation growing on the edge of the cover was noted.

All observations indicated the continued integrity of the unit; however, as a best management practice, it was recommended to remove the vegetation that was growing on the edge of the cover.

3.1.3 Third Quarter

The third quarter inspection was conducted on September 19, 2006. The inspection indicated that the unit was in excellent condition. No issues were identified with the fence, signs, monuments, or cover. Vegetation growing on the edge of the cover had been removed as a best management practice on August 3, 2006.

All observations indicated the continued integrity of the unit, and no actions were necessary.

3.1.4 Fourth Quarter

The fourth quarter inspection was conducted on December 20, 2006. The inspection indicated that the unit was in excellent condition. The wave barrier was damaged due to high winds, and maintenance was recommended. No other issues were identified with the fence, signs, monuments, or cover.

All observations indicated the continued integrity of the unit; however, it was recommended to repair the wave barrier.

3.2 PRECIPITATION-TRIGGERED INSPECTION RESULTS

One inspection was performed following a precipitation event that exceeded 1.28 cm (0.50 in.) within a 24-hour period during 2006. Precipitation records for 2006 are included in Appendix C of this report.

A precipitation event measured at 1.98 cm (0.78 in.) occurred on March 28, 2006. An inspection was performed on March 30, 2006. No issues or concerns were noted.

4.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

4.1 SUMMARY AND CONCLUSIONS

The post-closure inspections conducted in 2006 have demonstrated the continued integrity of the cover, fencing, warning signs, and use restriction for CAU 92. The wave barrier will be repaired before the next quarterly inspection. No further maintenance or repairs are needed.

4.2 RECOMMENDATIONS

Continue post-closure inspections as scheduled.

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5.0 REFERENCES

DOE/NV, see U.S. Department of Energy, Nevada Operations Office.

EPA, see U.S. Environmental Protection Agency.

Federal Facility Agreement and Consent Order. 1996 (as amended). Agreed to by the state of Nevada, U.S. Department of Energy, and U.S. Department of Defense.

FFACO, see *Federal Facility and Consent Order*.

NDEP, see Nevada Division of Environmental Protection.

Nevada Division of Environmental Protection. 1995. *Nevada Division of Environmental Protection Permit for a Hazardous Waste Management Facility, Permit Number NEV HW009*. Carson City, NV.

Nevada Division of Environmental Protection. 2005. *Nevada Division of Environmental Protection Permit for a Hazardous Waste Management Facility, Permit Number NEV HW0021*. Carson City, NV.

U.S. Department of Energy, Nevada Operations Office. 1996. *Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Characterization Plan Area 6 Decontamination Pond Facility*, Revision 1, DOE/NV--438. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office. 1997a. *Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Environmental Restoration Site Characterization Report, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92*, Revision 1, DOE/NV--470. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office. 1997b. *Resource Conservation and Recovery Act Corrective Measures Study, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92*, DOE/NV--493. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office. 1998. *Closure Plan for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada*, Revision 2, DOE/NV/11718--256-Rev 2. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office. 1999. *Closure Report for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada*, DOE/NV/11718--306. Las Vegas, NV.

U.S. Environmental Protection Agency. 1996. *40 Code of Federal Regulations 265 Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities*. Washington, D.C.

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APPENDIX A

INSPECTION CHECKLISTS AND FIELD NOTES

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CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: 3/23/06 11:05AM	Reason for Inspection: Quarterly
Date of Last Post-Closure Inspection: 12/12/05	Reason for Last Post-Closure Inspection: Quarterly
Responsible Agency: Bechtel Nevada Environmental Restoration	
Address: Nevada Test Site, Mercury, Nevada	
Responsible Agency Official: Jeffrey L. Smith, Project Manager	
Chief Inspector: Glenn Richardson	Title: Task Manager
Assistant Inspector: Brian Kourad	Title: Deputy Field Ops Manager
Organization: Environmental Restoration	

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Have the design basis documents been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Have the site as-built plans and site base map been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Have the previous inspection reports been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Were anomalies or trends detected on previous inspections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Was maintenance performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Have the site maintenance and repair records been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Has site repair resulted in a change from as-built conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Are revised as-built plans available that reflect repair changes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Are there any new roads or trails?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Has there been any change in the position of nearby washes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Has there been lateral excursion or erosion/deposition of nearby washes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Are there new drainage channels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Has there been a change in the surrounding vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Have any posts been damaged or their anchoring weakened?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Does the gate show evidence of tampering or damage?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Was the gate locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Is there any evidence of human intrusion onto the cover?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Is there any evidence of large animal intrusion onto the cover?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Have any signs been damaged or removed? (Number of signs replaced: <u>0</u>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
h. Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Waste unit cover:			
a. Is there evidence of settling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Is there evidence of cracking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Is there evidence of erosion (wind or water)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Is there evidence of animal burrowing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Is there vegetation growing on the cover?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Other (including trash, debris, etc within fenced area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

5. Photograph Instructions:

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

YES	NO	EXPLANATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

a. Have all photographs required by the photograph instructions been taken?

b. Has a photograph log been prepared?
(Number of photographs taken: 9)

c. Other?

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

Person/Agency to whom report was made:

2. Are more frequent inspections required?

3. Are existing maintenance/repair actions satisfactory?

4. Is other maintenance/repair necessary?

5. Field conclusions/recommendations:

The Decon Pond site was in excellent condition. There was no evidence of vegetation on the cover. Also, there was no evidence of animal burrowing. The signs, fencing, and wave barriers were in good condition.

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ G. Richardson

Date: 3/23/06

Printed Name: Glenn Richardson

Title: Task Manager

Work continued from Page 130

10:37 - Arrived at CAU 333

fence locked

Photo 1 N Edge Facing S

" 2 W " Facing E

" 3 S " Facing N

" 4 E Edge Facing W

large tumbleweed buildup at ^{3/23/06}
inside and outside of fence.

10:46 - left site.

11:05 Arrived at CAU 92

Gate locked on in good condition

signs up and in good condition, no

signs of erosion or ponding.

Photo 1 Outside looking N

2 " " E

3 " " S

4 " " W

5 " " N

6 Inside looking N

7 " " E

8 " " S

9 " " W

No vegetation site looks good.

11:21 left site.

SIGNATURE /s/ G. Richardson

DATE

5/23/06

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: 3/30/06 1200 Reason for Inspection: Precipitation Event > 0.5 in. in 24 hours
Occurred on 3/28/06

Date of Last Inspection: 3/22/06 Reason for Last Inspection: Quarterly

Responsible Agency: Bechtel Nevada Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector: Missa Silva Title: Tech. Lead Organization: Environmental Restoration

Assistant Inspector: Kevin Campbell Title: Tech. Manager Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

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3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
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6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Have the design basis documents been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Have the site as-built plans and site base map been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Have the previous inspection reports been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Were anomalies or trends detected on previous inspections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Was maintenance performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Have the site maintenance and repair records been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Has site repair resulted in a change from as-built conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Are revised as-built plans available that reflect repair changes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NA

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION		YES	NO	EXPLANATION
1. Adjacent off-site features:				
a. Have there been any changes in the use of the adjacent area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b. Are there any new roads or trails?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c. Has there been any change in the position of nearby washes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d. Has there been lateral excursion or erosion/deposition of nearby washes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e. Are there new drainage channels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f. Has there been a change in the surrounding vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
2. Access roads, fences, gates, and signs:				
a. Is there a break in the fence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b. Have any posts been damaged or their anchoring weakened?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c. Does the gate show evidence of tampering or damage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d. Was the gate locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e. Is there any evidence of human intrusion onto the cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
f. Is there any evidence of large animal intrusion onto the cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
g. Have any signs been damaged or removed? (Number of signs replaced: <u>0</u>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
h. Other?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
3. Monuments and other permanent features:				
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d. Other?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. Waste unit cover:				
a. Is there evidence of settling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
b. Is there evidence of cracking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
c. Is there evidence of erosion (wind or water)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
d. Is there evidence of animal burrowing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
e. Is there vegetation growing on the cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
g. Other (including trash, debris, etc within fenced area)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

5. Photograph Instructions:

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

YES	NO	EXPLANATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	No photos are required for precip. inspections.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

a. Have all photographs required by the photograph instructions been taken?

b. Has a photograph log been prepared? *(Number of photographs taken: 0)*

c. Other?

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

Person/Agency to whom report was made:

2. Are more frequent inspections required?

3. Are existing maintenance/repair actions satisfactory?

4. Is other maintenance/repair necessary?

5. Field conclusions/recommendations: *The unit is in excellent condition. No issues/concerns were observed.*

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: */s/ A. Silvas*

Date: *3/30/06*

Printed Name: *Alissa Silvas*

Title: *Technical Lead*

TITLE CAU 92 Precip. Inspection

Work continued from Page

PROJECT NO.

173

BOOK NO.

Thursday - March 30, 2006

Personnel - Alissa Silvas - TL

Kevin Campbell - TM

SOW - Inspect CAU 92 Deon Pond

Equipment - None

Weather - Sunny, warm, calm

1200 - Arrived at CAU 92

Signs look good - Fence looks good - Some small damage to the wave barrier. No weeds. Some ponding at

the toe of the cover inside the fence

Cover is in excellent condition. No issues or concerns were observed.

SIGNATURE /s/ A. Silvas

DATE
3/30/06

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: 6/20/06 10:20	Reason for Inspection: Quarterly	
Date of Last Post-Closure Inspection:	Reason for Last Post-Closure Inspection:	
Responsible Agency: Bechtel Nevada Environmental Restoration		
Address: Nevada Test Site, Mercury, Nevada		
Responsible Agency Official: Jeffrey L. Smith, Project Manager		
Chief Inspector: SHAUGHN BURNISON	Title: TECH LEAD	Organization: Environmental Restoration
Assistant Inspector: GLENN RICHARDSON	Title: TASK MGR	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	X		
2. Have the design basis documents been reviewed?	X		
3. Have the site as-built plans and site base map been reviewed?	X		
4. Have the previous inspection reports been reviewed?	X		
a. Were anomalies or trends detected on previous inspections?		X	
b. Was maintenance performed?		X	
5. Have the site maintenance and repair records been reviewed?	X		
a. Has site repair resulted in a change from as-built conditions?		X	
b. Are revised as-built plans available that reflect repair changes?			N/A

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
AAA 10:20			

1. Adjacent off-site features:

- a. Have there been any changes in the use of the adjacent area?
- b. Are there any new roads or trails?
- c. Has there been any change in the position of nearby washes?
- d. Has there been lateral excursion or erosion/deposition of nearby washes?
- e. Are there new drainage channels?
- f. Has there been a change in the surrounding vegetation?

	X	
	X	
	X	
	X	
	X	
	X	

2. Access roads, fences, gates, and signs:

- a. Is there a break in the fence?
- b. Have any posts been damaged or their anchoring weakened?
- c. Does the gate show evidence of tampering or damage?
- d. Was the gate locked?
- e. Is there any evidence of human intrusion onto the cover?
- f. Is there any evidence of large animal intrusion onto the cover?
- g. Have any signs been damaged or removed?
(Number of signs replaced: __)
- h. Other?

	X	
	X	
	X	
X		
	X	
	X	
	X	
		N/A

3. Monuments and other permanent features:

- a. Have survey markers, boundary monuments, or monitoring stations been disturbed?
- b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?
- c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?
- d. Other?

	X	
	X	
	X	
		N/A

4. Waste unit cover:

- a. Is there evidence of settling?
- b. Is there evidence of cracking?
- c. Is there evidence of erosion (wind or water)?
- d. Is there evidence of animal burrowing?
- e. Is there vegetation growing on the cover?
- g. Other (including trash, debris, etc within fenced area)?

	X	
	X	
	X	
	X	
X		VEGETATION HAS TAKEN HOLD ON THE MARGINS OF THE COVER ON ALL 4 SIDES.
	X	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

5. Photograph Instructions:

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

	YES	NO	EXPLANATION
a. Have all photographs required by the photograph instructions been taken?	X		
b. Has a photograph log been prepared? (Number of photographs taken: 8)	X		
c. Other?		X	

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

X

Person/Agency to whom report was made:

2. Are more frequent inspections required?

X

3. Are existing maintenance/repair actions satisfactory?

X

4. Is other maintenance/repair necessary?

X

HERBICIDE APPLICATION ALONG MARGIN OF
COVER IS RECOMMENDED.

5. Field conclusions/recommendations: SITE IN EXCELLENT CONDITION. SIGNS SOON TO BE OUT-OF-DATE.
HERBICIDE APPLICATION RECOMMENDED TO HALT VEGETATION INCURSION.

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ S. Burnison

Date: 6/20/2006

Printed Name: SHAUGHN A. BURNISON

Title: FIELD TECHNICAL LEAD

ACTIVITIES CONTINUED: 10:20 ARRIVE CAU 92 AREA 6 DECON AWD -
DRIVE PERIMETER. NOTICE VEGETATION GROWING ON MARGIN ON 3 SIDES,
NONE ON THE COVER PROPER. UNLOCKED GATE, WALKED INTERIOR,
WAVE BARRIER IN GOOD CONDITION. SIGNS UP & IN GOOD CONDITION, BUT
WORDING WILL BE OUT-OF-DATE SOON. NO CRACKING ON COVER.
SITE OVERALL IN EXCELLENT CONDITION. HERBICIDE APPLICATION RECOMMENDED
TO CONTROL VEGETATION BEFORE IT SPREADS. LOCKED GATE - DEP FOR
CAU 112. PHOTOS TAKEN (SEE CHECKLISTS)

11:05 ARRIVE CAU 112 AREA 23 HAZARDOUS WASTE TRENCHES
GATE & EXTERIOR FENCE & SIGNAGE IN EXCELLENT CONDITION. UNLOCKED
GATE, ENTERED, & DROVE MARGIN OF LANDFILL. RIPRAP IN GOOD
SHAPE. NO SIGNIFICANT VEGETATION NOTED - A SMALL PLANT HERE &
THERE. MONUMENTS OK, MONITOR WELL COVERS IN PLACE. NO
SIGNS DOWN. EXITED, LOCKED GATE, DEPARTED SITE NO PHOTOS.

15:00 ARRIVE CAU 110 AX/BL
GATE & FENCE & SIGNAGE IN EXCELLENT CONDITION. ENTERED SITE
& WALKED COVER. VEGETATION VERY HEALTHY. ONE INACTIVE ANT
COLONY NOTED. SEVERAL GROUND SQUIRRELS SCURRIED AWAY AS
WE WALKED ON COVER IN SPITE OF RECORD "TRAP & RELOCATE"
CATCH EARLIER IN THE SPRING. MOST BURROWS & APPEARED UNOCCUPIED,
HOWEVER. IT IS NOTED THAT THE ADJACENT LANDFILL FACILITY -
AH/AT - IS NOW IDLE & CLOSED. PREVIOUSLY REPAIRED AREAS (FOR
SETTLING) ARE HOLDING WELL. NO SIGNIFICANT NEW CRACKS OR
SUBSIDING AREAS NOTED. EXCELLENT CONDITION OVERALL.
NO RECOMMENDATIONS OR MAINTENANCE REQUIRED.

SIGNATURE /s/ S. Burnison		DATE 6/20/06	
DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLISTInspection Date and Time: **9-19-06 10:30**

Reason for Inspection: Quarterly

Date of Last Post-Closure Inspection: **6-20-06**Reason for Last Post-Closure Inspection: **Quarterly**

Responsible Agency: Bechtel Nevada Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector: **Shaughn Burnison**Title: **Field Tech Lead**

Organization: Environmental Restoration

Assistant Inspector: **Mike Floyd**Title: **Field Tech Lead**

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

YES

NO

EXPLANATION

1. Has the Post-Closure Permit been reviewed?

X

☐

2. Have the design basis documents been reviewed?

X

☐

3. Have the site as-built plans and site base map been reviewed?

☐☐

4. Have the previous inspection reports been reviewed?

X

☐

a. Were anomalies or trends detected on previous inspections?

☐☐

b. Was maintenance performed?

☐☐

5. Have the site maintenance and repair records been reviewed?

X

☐

a. Has site repair resulted in a change from as-built conditions?

☐

X

b. Are revised as-built plans available that reflect repair changes?

X

☐**C. SITE INSPECTION PREPARATION**

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		X	
b. Are there any new roads or trails?		X	
c. Has there been any change in the position of nearby washes?		X	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		X	
e. Are there new drainage channels?		X	
f. Has there been a change in the surrounding vegetation?		X	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		X	
b. Have any posts been damaged or their anchoring weakened?		X	
c. Does the gate show evidence of tampering or damage?		X	
d. Was the gate locked?	X		
e. Is there any evidence of human intrusion onto the cover?		X	
f. Is there any evidence of large animal intrusion onto the cover?		X	
g. Have any signs been damaged or removed? (Number of signs replaced: 0)		X	
h. Other?		X	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		X	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		X	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		X	
d. Other?		X	
4. Waste unit cover:			
a. Is there evidence of settling?		X	
b. Is there evidence of cracking?		X	
c. Is there evidence of erosion (wind or water)?		X	
d. Is there evidence of animal burrowing?		X	
e. Is there vegetation growing on the cover?		X	
g. Other (including trash, debris, etc within fenced area)?		X	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

5. Photograph Instructions:

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

	YES	NO	EXPLANATION
a. Have all photographs required by the photograph instructions been taken?	X		
b. Has a photograph log been prepared? (Number of photographs taken: 8)	X		
c. Other?		X	

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

Person/Agency to whom report was made:

2. Are more frequent inspections required?

3. Are existing maintenance/repair actions satisfactory?

4. Is other maintenance/repair necessary?

5. Field conclusions/recommendations: Site looks excellent. No issues with the cover, signs, or fence. No intrusion of animals or people noted.

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ S. Burnison

Date: 7/19/2006

Printed Name: SHAUGHN A. BURNISON

Title: FIELD SUPPORT TECH LEAD

10:30 Arrive at CAU 92

fence: All posts and chain link are in good condition

Signs: All signs are in place attached
: All signs are readable

Cover: The cover had no vegetation
: No animal burrows were seen
: No erosion or cracking noted

This site is in excellent condition. No issues to report.

12:20 Arrive at CAU 112

fence: great condition w/ no breaks or damage
: the gate was locked

Signs: all attached at each corner
: none missing

monuments: all appeared in good condition

Cover: No settling, cracking, or erosion found

No issues or maintenance is needed at this site. The site is in good condition

SIGNATURE

/s/ M. Cabbie

DATE

9-19-06

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: 12/20/06 10:55AM	Reason for Inspection: Quarterly	
Date of Last Post-Closure Inspection: 9/19/06	Reason for Last Post-Closure Inspection: Quarterly	
Responsible Agency: Bechtel Nevada Environmental Restoration		
Address: Nevada Test Site, Mercury, Nevada		
Responsible Agency Official: Jeffrey L. Smith, Project Manager		
Chief Inspector: Glenn Richardson	Title: Task Manager	Organization: Environmental Restoration
Assistant Inspector: Shaughn Burnison	Title: Field Support Tech Lead	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Have the design basis documents been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Have the site as-built plans and site base map been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Have the previous inspection reports been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Were anomalies or trends detected on previous inspections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Was maintenance performed?	<input type="checkbox"/>	<input type="checkbox"/>	
5. Have the site maintenance and repair records been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Has site repair resulted in a change from as-built conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Are revised as-built plans available that reflect repair changes?	<input type="checkbox"/>	<input type="checkbox"/>	N/A

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION

YES

NO

EXPLANATION

1. Adjacent off-site features:

- a. Have there been any changes in the use of the adjacent area?
- b. Are there any new roads or trails?
- c. Has there been any change in the position of nearby washes?
- d. Has there been lateral excursion or erosion/deposition of nearby washes?
- e. Are there new drainage channels?
- f. Has there been a change in the surrounding vegetation?

	✓
	✓
	✓
	✓
	✓
✓	

There is light vegetation growth on the northeast corner of the cover and around the outside perimeter.

2. Access roads, fences, gates, and signs:

- a. Is there a break in the fence?
- b. Have any posts been damaged or their anchoring weakened?
- c. Does the gate show evidence of tampering or damage?
- d. Was the gate locked?
- e. Is there any evidence of human intrusion onto the cover?
- f. Is there any evidence of large animal intrusion onto the cover?
- g. Have any signs been damaged or removed?
(Number of signs replaced: 0)
- h. Other?

	✓
	✓
	✓
✓	
	✓
	✓
	✓
✓	

The wave barriers at the bottom of the chain link fencing was damaged due to high winds.

3. Monuments and other permanent features:

- a. Have survey markers, boundary monuments, or monitoring stations been disturbed?
- b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?
- c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?
- d. Other?

	✓
	✓
	✓

N/A

4. Waste unit cover:

- a. Is there evidence of settling?
- b. Is there evidence of cracking?
- c. Is there evidence of erosion (wind or water)?
- d. Is there evidence of animal burrowing?
- e. Is there vegetation growing on the cover?
- g. Other (including trash, debris, etc within fenced area)?

	✓
	✓
	✓
	✓
	✓
✓	

N/A

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

5. Photograph Instructions:

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

	YES	NO	EXPLANATION
a. Have all photographs required by the photograph instructions been taken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Has a photograph log been prepared? (Number of photographs taken: <u>8</u>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

<input type="checkbox"/>	<input checked="" type="checkbox"/>	
--------------------------	-------------------------------------	--

Person/Agency to whom report was made:

2. Are more frequent inspections required?

<input type="checkbox"/>	<input checked="" type="checkbox"/>	
--------------------------	-------------------------------------	--

3. Are existing maintenance/repair actions satisfactory?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	
-------------------------------------	--------------------------	--

4. Is other maintenance/repair necessary?

<input type="checkbox"/>	<input checked="" type="checkbox"/>	
--------------------------	-------------------------------------	--

5. Field conclusions/recommendations: *Use restriction signage and fencing are in good condition. Noticed light vegetation on the north^{east} corner of the cover and around the outside perimeter of the cover. There were no signs of animal burrowing. Vegetation will be removed if it increases in the spring season. The wave barriers at the bottom of the chainlink fencing was damaged in a couple of areas due to high winds. A follow-up action is required for maintenance.*

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: /s/ G. Richardson

Date: 12/20/06

Printed Name: Glenn Richardson

Title: Task Manager

Work continued from Page 152

BOOK NO.

CAU 262 (CAS 25-02-06) AREA 25 SEPTIC SYSTEM AND UNDERGROUND DISCHARGE POINT
ONE SIGN DOWN. NO FENCE NO INTRUSION OR EROSION. NO CHANGES IN NEARBY
VICINITY. FOLLOWUP ACTION: REMOUNT SIGN

5

CAU 165 (CAS 25-20-01) AREA 25 LAB DRAIN DRY WELL
2 SIGNS. NO EROSION OR UNACCEPTABLE INTRUSION (PARKING AREA).
A-OK. NO FOLLOWUP ACTION REQUIRED.

10

15

RCRA Post Closure Inspections - Dec. 20, 2006

CAUS. 90, 92, 110, + 112

20

CAU 91 does not require an inspection at this time.

Personnel: Glenn Richardson NSTec Task Manager
Shaughn Burnison NSTec Field Support Technical Lead

25

Visitors: Ted Zaferatos - NDEP
Dennis Nicodemus - NDEP

Work continued to Page 154

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

(Shaughn Burnison is supporting another ER field job and will accompany us at the Bitcutter site in Area 2.)

CAU 90 - Arrived at Bitcutter Containment site at 9:30 AM.

Performed Tailgate Safety Briefing:

- Discussed site hazards and environmental weather conditions. Temp $\approx 30^{\circ}$.
 - Discussed Slips/Trips/Falls due to snow on ground.
- Cold Stress

Performed Inspection of chain-link fence, signage, and looked for signs of animal burrowing.

Site conditions looked good at the Bitcutter site.

No follow-up actions are required.

9:50 AM - Left CAU 90, heading to CAU 110 Area 3 U-3ax/61 site

10:10 AM - Arrived at U3ax/61

Performed inspection of the signage, fencing, and vegetative cover. Also, showed NDEP the area that subsidence repairs were made on 12/14/06. NDEP was satisfied with the repairs. NDEP expressed a comment that was favorable about the method of repair.

We noticed some small burrows on the north edge of the cover. Photos were taken.

Overall the site was in good condition.

10:55 AM - Left U-3ax/61 heading to Decon Pond

11:05 AM - Arrived at CAU 92 Decon Pond

Performed our inspection of the fencing, signage, surface monuments, and vegetation.

We noticed vegetation that was starting along the outside perimeter of the cover. Vegetation (light)

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

was also on the northeast ~~edge~~^{side} corner of the cover.

It was decided that a follow-up action was not required.

The small vegetation will be monitored and if it increases in the spring season, it will be removed.

5 NDEP noticed damage to the wave barriers. The wave barriers were damaged in a couple of different locations. Maintenance is necessary within 60 Days. Subsidence surveys were done on 12/12 11:25AM-Photos were taken and we left the site heading to Mercury for lunch.

10 12:00 PM - Lunch

12:20 PM - Left Cafeteria, heading to CAU 112

12:27 PM - Arrived at CAU 112 - A-23 Waste Trenches
Performed drive-around inspection.

No concerns or issues at this site.

15 The site is in overall good condition.

12:40 PM - NDEP departed from CAU 112.

RCRA Inspections completed on Dec. 20, 2006.

20

25

SIGNATURE		DATE	
/s/ G. Richardson			
DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

APPENDIX B

PHOTOGRAPHS

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PHOTOGRAPH LOG

PHOTOGRAPH	DATE	DESCRIPTION
1	3/23/2006	Outside unit looking north
2	3/23/2006	Outside unit looking east
3	3/23/2006	Outside unit looking south
4	3/23/2006	Outside unit looking west
5	3/23/2006	Inside unit looking north
6	3/23/2006	Inside unit looking east
7	3/23/2006	Inside unit looking south
8	3/23/2006	Inside unit looking west
9	6/20/2006	Outside unit looking north
10	6/20/2006	Outside unit looking east
11	6/20/2006	Outside unit looking south
12	6/20/2006	Outside unit looking west
13	6/20/2006	Inside unit looking north
14	6/20/2006	Inside unit looking east
15	6/20/2006	Inside unit looking south
16	6/20/2006	Inside unit looking west
17	9/19/2006	Outside unit looking north
18	9/19/2006	Outside unit looking east
19	9/19/2006	Outside unit looking south
20	9/19/2006	Outside unit looking west
21	9/19/2006	Inside unit looking north
22	9/19/2006	Inside unit looking east
23	9/19/2006	Inside unit looking south
24	9/19/2006	Inside unit looking west
25	12/20/2006	Outside unit looking north
26	12/20/2006	Outside unit looking east
27	12/20/2006	Outside unit looking south
28	12/20/2006	Outside unit looking west
29	12/20/2006	Inside unit looking north
30	12/20/2006	Inside unit looking east
31	12/20/2006	Inside unit looking south
32	12/20/2006	Inside unit looking west

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Photograph 1: Outside unit looking north, 03/23/2006



Photograph 2: Outside unit looking east, 03/23/2006



Photograph 3: Outside unit looking south, 03/23/2006



Photograph 4: Outside unit looking west, 03/23/2006



Photograph 5: Inside unit looking north, 03/23/2006



Photograph 6: Inside unit looking east, 03/23/2006



Photograph 7: Inside unit looking south, 03/23/2006



Photograph 8: Inside unit looking west, 03/23/2006



Photograph 9: Outside unit looking north, 06/20/2006



Photograph 10: Outside unit looking east, 06/20/2006



Photograph 11: Outside unit looking south, 06/20/2006



Photograph 12: Outside unit looking west, 06/20/2006



Photograph 13: Inside unit looking north, 06/20/2006



Photograph 14: Inside unit looking east, 06/20/2006



Photograph 15: Inside unit looking south, 06/20/2006



Photograph 16: Inside unit looking west, 06/20/2006



Photograph 17: Outside unit looking north, 09/19/2006



Photograph 18: Outside unit looking east, 09/19/2006



Photograph 19: Outside unit looking south, 09/19/2006



Photograph 20: Outside unit looking west, 09/19/2006



Photograph 21: Inside unit looking north, 09/19/2006



Photograph 22: Inside unit looking east, 09/19/2006



Photograph 23: Inside unit looking south, 09/19/2006



Photograph 24: Inside unit looking west, 09/19/2006



Photograph 25: Outside unit looking north, 12/20/2006



Photograph 26: Outside unit looking east, 12/20/2006



Photograph 27: Outside unit looking south, 12/20/2006



Photograph 28: Outside unit looking west, 12/20/2006



Photograph 29: Inside unit looking north, 12/20/2006



Photograph 30: Inside unit looking east, 12/20/2006



Photograph 31: Inside unit looking south, 12/20/2006



Photograph 32: Inside unit looking west, 12/20/2006

APPENDIX C

PRECIPITATION RECORDS

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02/03/06 YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

January 01 - 03, 2006

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1													0.07	0.02					0.21	0.02	0.05	0.08	0.03		0.39
2																									0.09
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.48

Data Tabulated By: R. C. Lambert

Date Quality Control: 2/3/06

Certified By: [Signature]



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03/07/06

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

February 01 - 28, 2006

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.01
18																									0.00
19																									0.06
20																									0.05
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.18
28	0.03	0.03	0.02	0.02	0.05	0.09	0.04	0.01																	0.29
Monthly Total																									0.59

Data Tabulated By:

03/07/2006

ARLSORD

Data Quality Control:

03/07/2006

232 Energy Way
N. Las Vegas, NV 89030

Certified By:

3/7/06



702-295-1263

04/06/06

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

March 01 - 31, 2006

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.02
11																									0.01
12																									0.09
13																									0.04
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.10
19																									0.00
20																									0.02
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.78
29																									0.03
30																									0.00
31																									0.00
Monthly Total																									1.10

Data Tabulated By:

04/06/06

Data Quality Control:

04/06/06

Certified By:

04/06/06



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05/08/06																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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06/05/06 YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (inches)

Day/Hour	May 01 - 31, 2006																								Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22									0.03		0.01	0.03	0.03												0.10
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.10

Data Tabulated By: 6/5/06

Data Quality Control: 6/5/06

Certified By: 6/5/06



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232 Energy Way
N. Las Vegas, NV 89030
702-295-1263

07/03/06		YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)																							
		June 01 - 30, 2005																							
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7														0.02											0.02
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13								0.02																	0.02
14																									0.00
15																									0.00
16																									0.00
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24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.04
Data Tabulated By:																									
Data Quality Control:																									
Certified By:																									

08/10/06	YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)																							
	July 01 - 31, 2006																							
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1																								0.00
2																								0.00
3																								0.00
4																								0.00
5																						0.01		0.01
6																								0.00
7																								0.00
8													0.17											0.17
9																								0.00
10																								0.00
11																								0.00
12																								0.00
13																								0.00
14																								0.00
15																								0.00
16																								0.00
17																								0.00
18																								0.00
19																								0.00
20																								0.00
21																								0.00
22																								0.00
23																								0.00
24																	0.01	0.03						0.04
25																								0.00
26																								0.00
27																								0.00
28																								0.00
29																								0.00
30																								0.00
31																								0.00
Monthly Total																								0.22
Data Tabulated By:																								
Data Quality Control:																								
Certified By:																								



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09/07/06

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

August 1-31 2006

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.00

Data Tabulated By:

9-7-06

Data Quality Control:

9-7-06

Certified By:

9/8/06



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10/12/06

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

September 1-30 2006

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6				0.04																					0.00
7																		0.12							0.16
8																		0.02							0.02
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
Monthly Total																									0.18

Data Tabulated By:

Data Quality Control:

Certified By:

10/10/06

10/10/06

10/10/06



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11/07/06	YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)																								
	October 1-31 2006																								
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3					0.02																				0.02
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14												0.02	0.01												0.03
15																									0.00
16																							0.01	0.01	0.02
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.07
Data Tabulated By:																									
Data Quality Control:																									
Certified By:																									

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12/05/06

YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)

November 1-30 2006

Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
Monthly Total																									0.00

Data Tabulated By:

12/05/06

Data Quality Control:

12/05/06

Certified By:

12/5/06



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